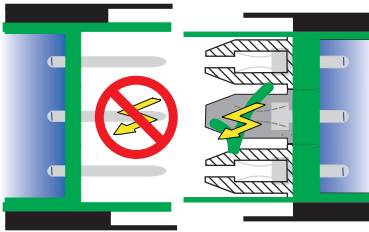




**What is eXLink?**



**eXLink** is a complete system for connecting and disconnecting products electrically. This system is available in different versions for different applications: 4-pole, 4-pole + PE, 6-pole + PE and 7-pole.

It is necessary to distinguish between active components (couplers/receptacles) that, due to the design of the live parts (contact sockets in IP 30), can also be live when open, and passive components (plugs/inlets) that, due to the exposed plug pins, must not be live.

**A solution for every environment**

Depending upon the field of application, the components of the **eXLink connector system** are available in different versions:



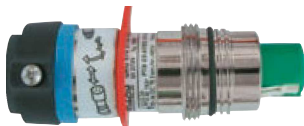
• **Moulded plastic**

The material used is a heavy-duty, impact resistant polyamide that, even in the event of extreme fluctuations in temperature, retains its high material properties.



• **Nickel-plated brass**

The use of this material has been proven very successful for inlets and receptacles in flameproof apparatus. Thanks to its insensitivity to severe ambient conditions, it is particularly well suited for use in atmospheres with a particularly high content of harmful and aggressive substances.



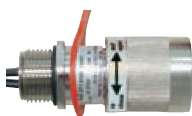
• **AISI 316L stainless steel**

This material is used if aggressive environmental influences, such as salt water, acids, alkalis, place particularly high demands on the corrosion resistance and mechanical stress of a component. Stainless steel receptacles and inlets are also used for the connection of flameproof apparatus.

• **Option for the connection of armoured cables:**



In order to be able to provide a solution for the connection of armoured, braided or screened cables, we have developed a metal version with a universal armoured clamp. This allows the use of many commonly used armoured cables. An external strain relief provides protection against strong external forces. This solution is available in nickel-plated brass and stainless steel for plugs and couplers.



• **Threads:**

The 4-pole and 4-pole + PE inlets and receptacles feature an integral M20 or NPT 1/2" thread. The 6-pole + PE and 7-pole inlets and receptacles have an integral M25 or NPT 3/4" thread. NPT-metallic only.



### Components

Different applications need individual solutions, who can be reached by the combination of well-suited components.



- **Plug:**  
Suitable as a cable end – with plug pins (in line male cable connector), must not be live when disconnected (**passive component**).



- **Connector:**  
Suitable as a cable end – with contact sockets (in line female cable connector), can be live when disconnected (**active component**).



- **Receptacle:**  
Suitable for installation with thread in products – with contact sockets (female), can be live when disconnected (**active component**).



- **Inlet:**  
Suitable for installation with thread in products – with plug pins (male), must not be live when disconnected (**passive component**).



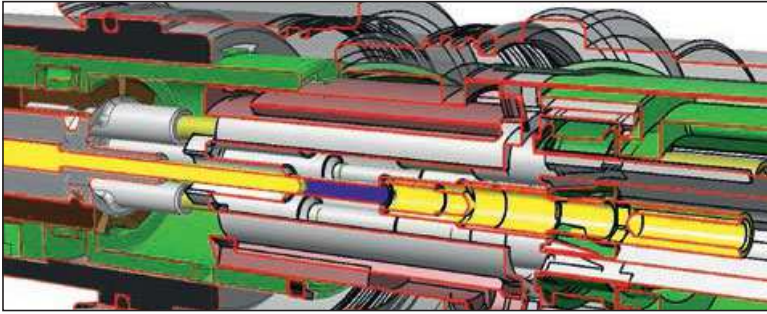
- **Elbow:**  
90° elbow to facilitate installation of an inlet or a receptacle into a device when it is not possible to lay the cables in a straight line. The direction of the elbow can be aligned in 12 directions (30° turns).



- **Locking device:**  
A two-part system which, when eXLink is installed on the connector/inlet, plug/receptacle or connector/plug, allows a padlock to be attached to prevent eXLink from being disconnected by unauthorised person.



- **eXLink Mining:**  
eXLink Mining ist ein separat bescheinigtes Stecksystem für den harten Einsatz in schlagwettergefährdeten Bereichen des Untertagebergbaus. Ströme bis 16 A können so sicher and flexibel verteilt werden. Auch Bergbau typische armoured cables sind an den Steckern and Kupplungen anschließbar.



**Function**

The self-cleaning Ex-e multi-contact conducting pins provide permanent faultless electrical connection. To ensure that the contact system remains fully functional even during long-term use in aggressive environments all conducting pins are silver-plated. The quality of the connection means that the system is suitable for current in the mA range up to 16 A continuously.

**Coding**

Male and female connectors are coded using a similar timetable according IEC 60309 standard, where voltage and current types have their own „time of day“ to ensure that the correct connection is made.

**3-/4-pole:**

- 2 h Bus connections
- 4 h 110 V AC 2-pole + PE
- 5 h 24 V AC 4-pole + PE
- 6 h 230 V AC 2-pole + PE
- 8 h 24 V DC 4-pole
- 10 h 230 V AC 4-pole + PE
- 12 h 24 V AC 2-pole + PE

**6+1-pole:**

- 4 h 110 V AC 6-pole + PE
- 6 h 230 V AC 6-pole + PE
- 8 h 24 V DC 7-pole
- 10 h 400 V AC 6-pole + PE
- 12 h 24 V AC 6-pole + PE

However, individual combinations can also be coded if required by customers. The time code can be read on the connector. The location of PE/PA in relation to the keyway determines the name (e.g. 6 h = PE/PA bottom). By the time-setup it is protected to connect apparatus to the wrong outlet.

**Connection types**

The eXLink is available in two connection types:

• **Crimp connection**

The conductors are crimped directly into the contact pins. The crimp connection is suitable for all cables from 0.25 mm<sup>2</sup> - 0.5 mm<sup>2</sup>, 0.75 mm<sup>2</sup> - 1.5 mm<sup>2</sup> or in a third version for 2.5 mm<sup>2</sup>.

Smaller cables can be soldered.

• **Cage clamp terminal**

This solution allows conductors between 0.5 and 1.0 mm<sup>2</sup> to be installed easily as the conductors do not have to be crimped into the contact pins. All plugs and couplers up to and including the 4-pole version can be delivered with cage clamp terminals. The 6-pole+PE and the 7-pole versions are available as cage clamp versions too.

**Extended ambient temperature range**

The system is approved for a standard ambient temperature range of -55 °C to +75 °C. The use of moulded plastic versions is restricted in mechanical strength from -55 °C to -25 °C. Above +40 °C up to +75 °C the rated current have to be decreased.

